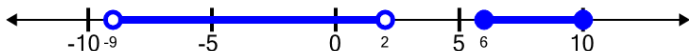


## Function Domain/Range Definition - Number Line to Set Builder (With Union)

1

What set describes the domain on this number line?

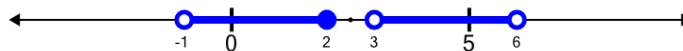


A  $\{X \in \mathbb{R} | -9 < X < 2 \text{ or } 6 < X \leq 10\}$

B  $\{X \in \mathbb{R} | -9 < X < 2 \text{ or } 6 \leq X \leq 10\}$

2

What set describes the range on this number line?

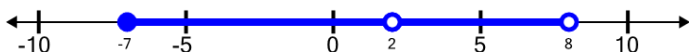


A  $\{Y \in \mathbb{R} | -1 \leq Y < 2 \text{ or } 3 \leq Y \leq 6\}$

B  $\{Y \in \mathbb{R} | -1 < Y \leq 2 \text{ or } 3 < Y < 6\}$

3

What set describes the domain on this number line?



A  $\{X \in \mathbb{R} | -7 \leq X < 2 \text{ or } 2 \leq X\}$

B  $\{X \in \mathbb{R} | -7 \leq X < 2 \text{ or } 2 < X < 8\}$

4

What set describes the domain on this number line?



A  $\{X \in \mathbb{R} | -4 < X \leq 2 \text{ or } 5 < X \leq 10\}$

B  $\{X \in \mathbb{R} | -4 < X \leq 2 \text{ or } 5 < X\}$

5

What set describes the domain on this number line?

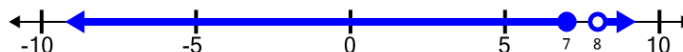


A  $\{X \in \mathbb{R} | 2 < X < 5 \text{ or } 9 \leq X\}$

B  $\{X \in \mathbb{R} | 2 \leq X \leq 5 \text{ or } 9 \leq X\}$

6

What set describes the domain on this number line?



A  $\{X \in \mathbb{R} | X \leq 7 \text{ or } 8 < X\}$

B  $\{X \in \mathbb{R} | 4 < X < 7 \text{ or } 8 \leq X < 13\}$

7

What set describes the domain on this number line?

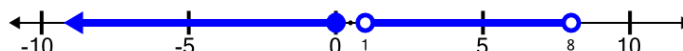


A  $\{X \in \mathbb{R} | -7 < X \leq -2 \text{ or } -1 < X \leq 3\}$

B  $\{X \in \mathbb{R} | -7 \leq X \leq -2 \text{ or } -1 \leq X < 3\}$

8

What set describes the domain on this number line?



A  $\{X \in \mathbb{R} | X \leq 0 \text{ or } 1 < X < 8\}$

B  $\{X \in \mathbb{R} | -9 \leq X \leq 0 \text{ or } 1 \leq X \leq 8\}$